

Name _____ Date _____

IMAGINARY NUMBERS

Algebra 2
Unit #3
WS #3

Simplify

1. $i^{34} =$
2. $i^{47} =$
3. $i^{32} =$
4. $i^{37} =$
5. $\sqrt{-6} =$
6. $\sqrt{-16} =$
7. $\sqrt{-24} =$
8. $\sqrt{-27} =$
9. $12i + 14i =$
10. $\sqrt{-64} + 6i =$
11. $6\sqrt{-12} - 2\sqrt{48} =$
12. $\sqrt{-81} \cdot \sqrt{-36} =$
13. $\sqrt{-28} \cdot \sqrt{-32} =$
14. $\sqrt{-45} \cdot \sqrt{-48} =$
15. $\frac{12i}{16i} =$
16. $\frac{4\sqrt{2}}{3\sqrt{-6}} =$